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PTO/SB/64/(6-95)

PATENT
Customer No. 22,852
Attorney Docket No. 01064.0011-06000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Richard LEVY

Application No.: 09/779,559

Filed: February 9, 2001

For: SUPERABSORBENT POLYMER-
LUBRICANT COMPOSITIONS
AND METHODS

Commissioner for Patents
Box DAC
Washington, DC 20231

)
)
) ATTN: Office of Petitions
)
) Group Art Unit: 1714
)
) Examiner: M. Medley
)

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APR 17 2002

OFFICE OF PETITIONS

Sir:

PETITION PURSUANT TO 37 C.F.R. §1.181

Applicant petitions the Commissioner pursuant to 37 C.F.R. §1.181(3), seeking to invoke the supervisory authority of the Commissioner regarding the electronic publication of the above identified application.

Statement of Facts

Applicant filed the above identified application on February 9, 2001 as a 37 C.F.R. §1.53(b) continuation application of pending prior application Serial No. 08/943,125. Applicant also included a preliminary amendment with the request for filing the 37 C.F.R. §1.53(b) application and two postcards to the Patent and Trademark Office requesting acknowledgement of receipt of the application and supporting papers,

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and assignment of a Serial Number. Applicant attaches as Exhibit 1 (a) the request for filing a 37 C.F.R. §1.53(b) continuation application, (b) the preliminary amendment, (c) the postcard requesting acknowledgement of receipt of the application, and (d) the postcard requesting assignment of the Serial Number.

Applicant subsequently obtained a printout of the electronically published application and attaches the Abstract and claims as Exhibit 2.

The Point or Points To Be Reviewed

Applicant's preliminary amendment will show that the request for filing the Rule 53(b) continuation application canceled the claims from the parent application and substituted new claims 57-68. A comparison of the claims filed in the Rule 53(b) application (Exhibit 1, Preliminary Amendment) to the electronically published claims (Exhibit 2) will show that the Patent and Trademark Office did not electronically publish the claims filed in the application.

Action Requested

Applicant therefore seeks to invoke the supervisory authority of the Commissioner in these circumstances and request that he direct the Patent and

Trademark Office to electronically publish the claims in the application as filed.

Applicant did not commit any error in this publication and presumed that the Patent and Trademark Office would electronically publish the claims as filed, however, applicant

discovered that they did not and requests correction of this mistake made by the Patent and Trademark Office.

Waiver of Petition Fee

In view of the fact that the error in the electronic publication of applicant's claims occurred through no fault of the applicant, he requests that the commissioner waive any petition fees or other fees due.

Conclusions

Applicant respectfully requests that the commissioner grant the relief sought, and waive any fees for filing this petition.

If filing this petition however, requires payment of a fee or an extension of time pursuant to 37 C.F.R. § 1.136, not accounted for above, applicant's attorneys request such an extension and charging any fees due to their Deposit Account No. 06-0916.

Respectfully submitted,
FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: April 12, 2002

By: 

Robert J. Eichelburg
Reg. No. 23,057

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OFFICE OF PETITIONS

THJ/RJE

PLEASE STAMP TO ACKNOWLEDGE RECEI. OF THE FOLLOWING:

In re Application of: Richard LEVY
37 C.F.R. §1.53(b) Continuation Application of
Parent Application Serial No. 08/943,123
Filed: October 3, 1997

Group Art Unit: Parent Application
1712

Examiner: Parent Application
M. Medley

Filed: To Be Assigned

For: SUPERABSORBENT POLYMER-LUBRICANT COMPOSITIONS
ON SUBSTRATE

1. Rule 53(b) Transmittal
2. Specification (78 - Pages)
3. Preliminary Amendment Pursuant to 37 C.F.R. §1.111
4. Declaration and Power of Attorney
5. Assignment and Assignment Recordation
6. Small Entity Status
7. Information Disclosure Statement and PTO Form 1449
8. Check for \$ 364.00 (\$364.00 filing fee and extra claim fee)



Date: February 9, 2001
CASE REF: 01064.0011-06000
RJE/mkl

PLEASE RETURN PC MKLeftwich TO MD 945

121-10-01

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APR 17 2002

OFFICE OF PETITIONS

1064.0011-06

THS/RJE

PLEASE ACCORD THIS NEW U.S. PATENT APPLICATION,
SERIAL NUMBER AND FILING DATE:

In re Application of: Richard LEVY

Serial No.: To Be Assigned
37 C.F.R. §1.53(b) Continuation
Application of Parent Application
Serial No. 08/943,123
Filed: October 3, 1997

Group Art Unit: Parent Application

Examiner: Parent Application
M. Medley



Filed: To Be Assigned

For: SUPERABSORBENT POLYMER-LUBRICANT COMPOSITIONS
ON SUBSTRATE

Serial No.:

Filing Date:

Dated: February 9, 2001

CASE REF: 01064.0011-06000

RJE/MKL

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AND 3501 13

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSISTANT COMMISSIONER FOR PATENTS

Washington, D.C. 20231

Attorney's Docket Number: 01064.0011-06000

Prior Application:

Art Unit: 1721

Examiner: M. Medley

SIR: This is a request for filing a

Continuation Application under 37 C.F.R. § 1.53(b) of pending prior application
Serial No. 08/943,123 filed October 3, 1997 of Richard LEVY for
SUPERABSORBENT POLYMER-LUBRICANT COMPOSITIONS ON SUBSTRATE.

1. ☒ Enclosed is a complete copy of the prior application including the oath or Declaration and drawings, if any, as originally filed. I hereby verify that the attached papers are a true copy of prior application Serial No. 08/943,123 as originally filed on October 3, 1997 incorporated herein by reference.
2. ☐ Enclosed is a substitute specification under 37 C.F.R. § 1.125.
3. ☐ Cancel Claims _____.
4. ☒ A Preliminary Amendment is enclosed.
5. ☒ The filing fee is calculated on the basis of the claims existing in the prior application as amended at 3 and 4 above.

For	: Number Filed	: Number Extra	: Rate	: Basic Fee \$710.00
Total	:	:	:	:
Claims	: 21 -20=	: 1	: x\$ 18.00=	: \$ 18.00
Independent	:	:	:	:
Claims	: 2-3=	: 0	: x\$ 80.00=	: 0
Multiple Dependent Claim(s) (if applicable)	:	:	: +\$270.00=	: 0
Total				= : \$728.00
Reduction by ½ for				:
filing by small entity				: - \$364.00
TOTAL FILING FEE				= : \$364.00

6. ☒ A check in the amount of \$ 364.00 to cover the filing fee is enclosed.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
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WASHINGTON, DC 20005
202-408-4000

7. ☒ The Commissioner is hereby authorized to charge any fees which may be required including fees due under 37 C.F.R. § 1.16 and any other fees due under 37 C.F.R. § 1.17, or credit any overpayment during the pendency of this application to Deposit Account No. 06-0916.
8. ☒ Amend the specification by inserting before the first line, the sentence:

--This is a continuation of parent application Serial No. 08/943,123, filed October 3, 1997, which is a continuation of Serial No. 08/583,587 filed January 5, 1996, which is a CIP of Serial No. 08/487,436 filed June 7, 1995 all of which are incorporated herein by reference.--
9. ☐ New formal drawings are enclosed.
10. ☒ The prior application is assigned of record to: LEE COUNTY MOSQUITO CONTROL DISTRICT
11. ☐ Priority of application Serial No. _____, filed on _____ in _____ (country) is claimed under 35 U.S.C. § 119. A certified copy

☐ is enclosed or ☐ is on file in the prior application.
12. ☒ A verified statement claiming small entity status

☒ is enclosed or ☐ is on file in the prior application.
13. ☒ The power of attorney in the prior application is to at least one of the following: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewris, Reg.

No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Roger D. Taylor, Reg. No. 28,992; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Dirk D. Thomas, Reg. No. 32,600; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanho Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Horn, Reg. No. 40,266; Linda A. Wadler, Reg. No. 33,218; Jeffrey A. Berkowitz, Reg. No. 36,743; Michael R. Kelly, Reg. No. 33, 921; and James B. Monroe, Reg. No. 33,971.

14. ☒ The power appears in the original declaration of the prior application.
15. ☐ Since the power does not appear in the original declaration, a copy of the power in the prior application is enclosed.
16. ☒ Please address all correspondence to FINNEGAN, HENDERSON, FARABOW, GARRETT and DUNNER, L.L.P., 1300 I Street, N.W., Washington, D.C. 20005-3315.
17. ☐ Recognize as associate attorney _____

 (name, address & Reg. No.)
18. ☒ Also enclosed is INFORMATION DISCLOSURE STATEMENT

PETITION FOR EXTENSION. If any extension of time is necessary for the filing of this application, including any extension in the parent application, serial no. 08/943,123, filed October 3, 1997, for the purpose of maintaining copendency between the parent application and this application, and such extension has not otherwise been requested, such an extension is hereby requested, and the Commissioner is authorized to charge necessary fees for such an extension to our Deposit Account No. 06-0916. A duplicate copy of this paper is enclosed for use in charging the deposit account.

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: Robert J. Eichelburg
Robert J. Eichelburg
Reg. No.: 23,057

Dated: February 9, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Richard LEVY)	
)	
Serial No.: To Be Assigned)	Group Art Unit: Parent Application
)	1721
37 C.F.R. §1.53(b) Continuation)	
Application of Parent Application)	Examiner: Parent Application
)	M. Medley
Serial No. 08/943,123)	
Filed: October 3, 1997)	
)	
Filed: To Be Assigned)	
)	
For: SUPERABSORBENT POLYMER-)	
LUBRICANT COMPOSITIONS ON)	
SUBSTRATE)	

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT PURSUANT TO 37 C.F.R. § 1.111

Please amend the above identified 37 C.F.R. § 1.53(b) continuation application based on parent application Serial No. 08/943,123 filed October 3, 1997 as follows, preliminary to an examination of the application on the merits.

IN THE CLAIMS:

Please cancel claims 1-56 without prejudice or disclaimer

Please add the following claims.

--57. . A substrate coated with an essentially water-free composition, wherein said composition comprises a superabsorbent polymer in combination with a compound wherein said compound comprises a petroleum lubricant, synthetic lubricant, grease, or solid lubricant, wherein said compound optionally contains a lubricant additive.

58. The substrate of claim 57 wherein said compound is a petroleum lubricant or synthetic lubricant and wherein said compound optionally contains an additive which is a detergent or a dispersant.

59. The substrate of claim 57 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

60. The substrate of claim 58 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

61. The substrate of claim 57 wherein said essentially water free composition comprises a superabsorbent polymer, and said compound is a petroleum oil, a silicone, an organic ester, or a glycol and combinations thereof.

62. The substrate of claim 61 wherein said silicone is a siloxane, low molecular weight silicone polymer, or diorgano silicon oxide.

63. The substrate of claim 57 wherein said substrate comprises cable.

64. The substrate of claim 57 wherein said substrate comprises a wire.

65. The substrate of claim 57 wherein said composition comprises a product made by the process of combining said superabsorbent polymer with said compound, and said additive, when present.

66. The substrate of claim 62 wherein said composition comprises a product made by the process of combining said superabsorbent polymer with said compound, and said additive, when present.

67. A method of protecting a substrate from the affects of water or water migration comprising coating said substrate with an essentially water-free composition, wherein said composition comprises a superabsorbent polymer in combination with a second compound wherein said second compound is a petroleum lubricant, synthetic lubricant, grease, or solid lubricant, and wherein said second compound optionally contains a lubricant additive.

68. The method of claim 67 wherein said compound is a petroleum lubricant or synthetic lubricant and wherein said compound optionally contains an additive which is a detergent or a dispersant.

69. The method of claim 67 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

70. The method of claim 68 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

71. The method of claim 67 wherein said essentially water free composition comprises a superabsorbent polymer, and said compound is a petroleum oil, a silicone, an organic ester, or a glycol and combinations thereof.

72. The method of claim 71 wherein said silicone is a siloxane, low molecular weight silicone polymer, or diorgano silicon oxide.

73. The method of claim 67 wherein said substrate comprises a cable.

74. The method of claim 67 wherein said substrate comprises a wire.

75. The method of claim 67 wherein said composition comprises a product made by the process of combining said superabsorbent polymer with said compound, and said additive, when present.

76. The method of claim 72 wherein said composition comprises a product made by the process of combining said superabsorbent polymer with said compound, and said additive, when present.

77. The substrate of claim 57 wherein the particle size of the superabsorbent polymer is from about less than 0.5 microns to about 300 microns.

REMARKS

The present application substantially copies claims from WO 00/31752, claiming priority from Rebouillat et al. United States Patent provisional patent application 60/109,719 filed November 24, 1998, subsequently filed as United States Patent application 09/443,695 on November 19, 1999. Applicant points out that the great grandparent application Serial No. 08/487,436 on which the present application is based has a filing date of June 7, 1995 and that the present application is also based on Continuation-In-Part Application Serial No. 08/583,582 filed January 5, 1996. Both applications precede the Rebouillat et al. applications by more than one year. As of the filing of this application, applicant's attorneys have determined that the Rebouillat et al. application has not issued as a United States Patent.

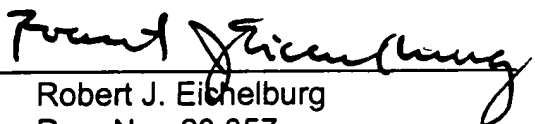
Applicant's attorneys request the examination of the present application by the same Examiner in charge of the examination of Rebouillat et al. United States Patent application 09/443,695.

If filing this preliminary amendment requires an extension of time under 37 C.F.R. § 1.136 in the parent application and payment of an extension of time fee or

other fee, any of which this preliminary amendment fails to account for, applicant's attorneys request such an extension and payment of any fees due from their Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: 
Robert J. Eichelburg
Reg. No. 23,057

Dated: February 9, 2001

US PATENT & TRADEMARK OFFICE

PATENT APPLICATION FULL TEXT AND IMAGE DATABASE



(35 of 58)

United States Patent Application

20010049344

Kind Code

A1

Levy, Richard

December 6, 2001

Lubricant compositions and methods

Abstract

A process is disclosed for manufacturing a lubricant composition comprising combining a superabsorbent polymer a with a material for decreasing friction between moving surfaces. The superabsorbent polymer absorbs from about 25 to greater than 100 times its weight in water and may comprise a polymer of acrylic acid, an acrylic ester, acrylonitrile or acrylamide, including co-polymers thereof or starch graft co-polymers thereof or mixtures thereof. A product produced by the process includes the material for decreasing friction comprising a petroleum lubricant containing an additive, water containing an additive, synthetic lubricant, grease, solid lubricant or metal working lubricant, wherein the synthetic lubricant, grease, solid lubricant or metal working lubricant optionally contain an additive. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, is also disclosed. This process includes applying the lubricant composition to at least one of the surfaces. The lubricant composition in this instance comprises a superabsorbent polymer combined with a material for decreasing friction between moving surfaces, wherein the material for decreasing friction comprises a petroleum lubricant, water, synthetic lubricant, grease, solid lubricant or metal working lubricant, and optionally an additive.

Inventors: **Levy, Richard; (Fort Myers, FL)**
Correspondence **FINNEGAN, HENDERSON, FARABOW,**
Name and **GARRETT, and DUNNER, L.L.P.**
Address: **1300 I Street, N.W.**
Washington
DC
20005-3315
US

Assignee Name **LEE COUNTY MOSQUITO CONTROL DISTRICT**
and Address:

Serial No.: **779559**

Series Code: **09**

C1000, C111 - 06000

Filed: **February 9, 2001**

U.S. Current Class:

508/118; 508/155; 508/167; 508/466

Intern'l Class:

C10M 101/00

Claims

What is claimed is:

1. A process for manufacturing a lubricant composition comprising combining a superabsorbent polymer with a material for decreasing friction between moving surfaces.
2. The process of claim 1, wherein said superabsorbent polymer absorbs from about 25 to greater than 100 times its weight in water.
3. The process of claim 2, wherein said superabsorbent polymer comprises a polymer of acrylic acid, an acrylic ester, acrylonitrile or acrylamide, including co-polymers thereof or starch graft co-polymers thereof or mixtures thereof.
4. The process of claim 3, wherein said material for decreasing friction comprises a petroleum lubricant containing an additive, water containing an additive, synthetic lubricant, grease, solid lubricant or metal working lubricant, wherein said synthetic lubricant, grease, solid lubricant or metal working lubricant optionally contain an additive.
5. The process of claim 4, wherein said material for decreasing friction comprises a solid inorganic lubricant.
6. The process of claim 5, wherein said solid inorganic lubricant comprises graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, borax, basic white lead, lead carbonate, lead iodide, asbestos, talc, zinc oxide, carbon, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.
7. The process of claim 3, wherein said material for decreasing friction comprises a phosphate.
8. The process of claim 3, wherein said material for decreasing friction comprises zinc phosphate, iron phosphate or manganese phosphate, or mixtures thereof.
9. The process of claim 3, wherein said material for decreasing friction comprises a solid organic lubricant.
10. The process of claim 9, wherein said solid organic lubricant comprises a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.
11. The process of claim 3, wherein said material for decreasing friction comprises a metal working lubricant containing water.

12. The process of claim 11, wherein said metal working lubricant containing water comprises an emulsion of oil and water.

13. The process of claim 11, wherein said metal working lubricant containing water comprises a solid inorganic lubricant and water.

14. The process of claim 13, wherein said solid inorganic lubricant comprises graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, borax, basic white lead, lead carbonate, lead iodide, asbestos, talc, zinc oxide, carbon, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

15. A product made by the process of claim 1.

16. A product made by the process of claim 2.

17. A product made by the process of claim 3.

18. A product made by the process of claim 4.

19. A product made by the process of claim 5.

20. A product made by the process of claim 6.

21. A product made by the process of claim 7.

22. A product made by the process of claim 8.

23. A product made by the process of claim 9.

24. A product made by the process of claim 10.

25. A product made by the process of claim 11.

26. A product made by the process of claim 12.

27. A product made by the process of claim 13.

28. A product made by the process of claim 14.

29. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying a lubricant composition comprising a superabsorbent polymer combined with a material for decreasing friction between moving surfaces, to at least one of said surfaces.

30. The process of claim 29, wherein said superabsorbent polymer absorbs from about 25 to greater than 100 times its weight in water.

31. The process of claim 30, wherein said superabsorbent polymer comprises a polymer of acrylic acid, an acrylic ester, acrylonitrile or acrylamide, including co-polymers thereof or starch graft co-polymers thereof or mixtures thereof.

32. The process of claim 31, wherein said material for decreasing friction comprises a petroleum lubricant, water, synthetic lubricant, grease, solid lubricant or metal working lubricant, wherein said synthetic lubricant, grease, solid lubricant or metal working lubricant optionally contain an additive.

33. The process of claim 32, wherein said material for decreasing friction comprises a solid inorganic lubricant.

34. The process of claim 33, wherein said solid inorganic lubricant comprises graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, borax, basic white lead, lead carbonate, lead iodide, asbestos, talc, zinc oxide, carbon, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

35. The process of claim 31, wherein said material for decreasing friction comprises a phosphate.

36. The process of claim 31, wherein said material for decreasing friction comprises zinc phosphate, iron phosphate or manganese phosphate, or mixtures thereof.

37. The process of claim 31, wherein said material for decreasing friction comprises a solid organic lubricant.

38. The process of claim 37, wherein said solid organic lubricant comprises a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

39. The process of claim 31, wherein said material for decreasing friction comprises a metal working lubricant containing water.

40. The process of claim 39, wherein said metal working lubricant containing water comprises an emulsion of oil and water.

41. The process of claim 39, wherein said metal working lubricant containing water comprises a solid inorganic lubricant and water.

42. The process of claim 41, wherein said solid inorganic lubricant comprises graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, borax, basic white lead, lead carbonate, lead iodide, asbestos, talc, zinc oxide, carbon, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

43. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 15 to at least one of said surfaces.

44. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 16 to at least one of said surfaces.

45. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 17 to

at least one of said surfaces.

46. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 18 to at least one of said surfaces.

47. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 19 to at least one of said surfaces.

48. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 20 to at least one of said surfaces.

49. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 21 to at least one of said surfaces.

50. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 22 to at least one of said surfaces.

51. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 23 to at least one of said surfaces.

52. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 24 to at least one of said surfaces.

53. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 25 to at least one of said surfaces.

54. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 26 to at least one of said surfaces.

55. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 27 to at least one of said surfaces.

56. A process comprising controlling the delivery of a lubricant to at least one of two moving surfaces in order to decrease friction between said moving surfaces, comprising applying the product of claim 28 to at least one of said surfaces.

Description

RELATED APPLICATIONS